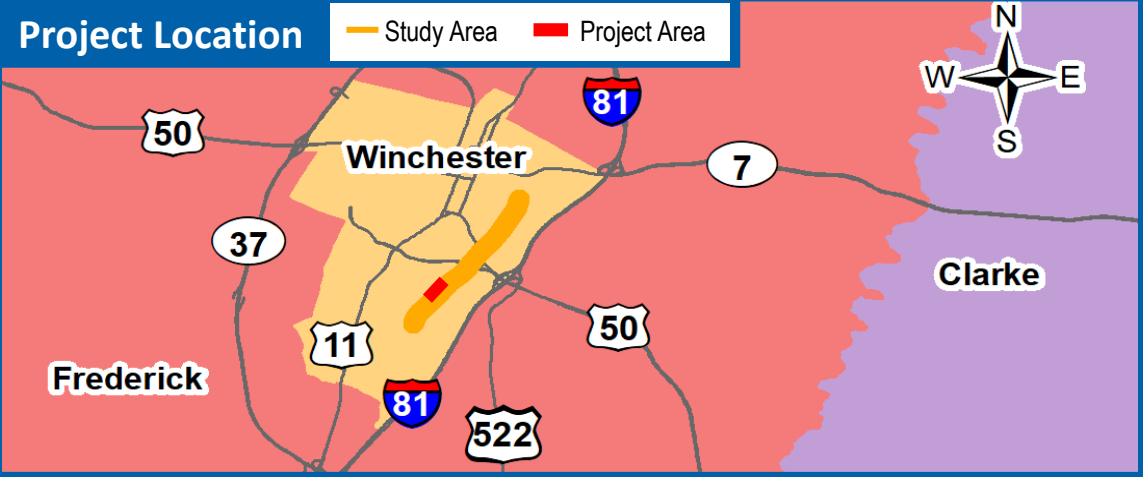


Improvement #9: Patsy Cline Boulevard, Adams Drive and Pleasant Valley Road

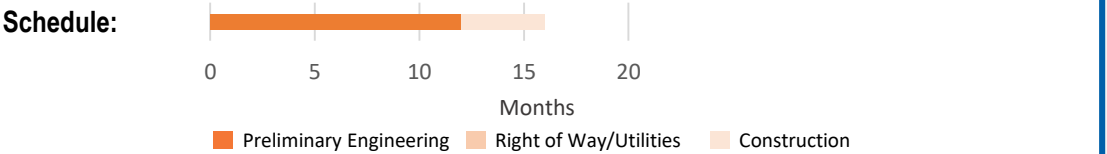
(9A) Convert Patsy Cline Boulevard Westbound Commercial Exit to Right-Out

(9B) Extend Westbound Left-Turn Lane on Adams Drive



Project Schedule & Preliminary Cost

Project schedules and cost estimate were developed based on information available at the time of study and should be reassessed prior to submitting funding applications.



Cost:

Phase	Cost Estimate (2020 Dollars)
Preliminary Engineering	\$280,000
ROW and Utility Relocation	\$0
Construction	\$720,000
Total Cost	\$1,000,000

Operations and Safety Improvements

The following recommendations are projected to improve operations and/or safety along Pleasant Valley Road.

Patsy Cline Boulevard and Pleasant Valley Road

- Improvement 9A:** Convert Patsy Cline Boulevard Westbound Commercial Exit to Right-Out
 - ✓ Five-year EPDO crashes reduced by 38
 - ✓ Nine intersection conflict points removed
 - ✓ The westbound approach improves from LOS C to LOS D

Adams Drive and Pleasant Valley Road

- Improvement 9B:** Extend Westbound Left-Turn Lane on Adams Drive
 - ✓ Provides storage for the rerouted volumes from Patsy Cline Boulevard

Safety Results

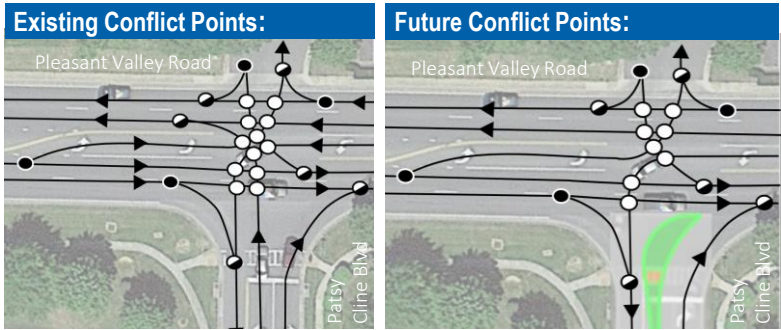
Crash modification factors (CMFs) were chosen to project the reduction in all severity crashes weighted to equivalent property damage only (EPDO) crashes.

Improvement	2014-2019* EPDO	CMF	EPDO Reduction
Improvement 9A	110	Remove minor approach left turns (0.65)	38
Improvement 9B	1	Extend Left-Turn Lane (0.97)	0

* 2019 VDOT crash data was available through July 30, 2019

Conflict points count the relative risk associated with vehicle interactions. Conflict point reduction is a metric used by VDOT to quantify safety improvements. Crossing conflict points are weighted twice as much as diverging and merging conflict points.

Conflict Point	Existing	Future
● Diverging (x1):	4	4
⦿ Merging (x1):	5	4
○ Crossing (x2):	12	8
Count Total:	21	16
Weight Total:	33	24
Weighted Conflict Point Reduction:		9



Traffic Operations Results

